STANDARDS, ON THE VIEWS & LAYOUTS

• DRAFTING TO A STANDARD
  ASME Y14.5M - 1994
  AMERICAN SOCIETY OF MECHANICAL ENGINEERS
  ISO - 51 - METRIC ONLY
  MILSPEC
  JIS

• TITLE BLOCK FORMAT
  - ALWAYS STATES STANDARD/UNITS
  - DRAWINGS ARE A LEGAL DOCUMENT
  - CLEAR COMMUNICATION

• OR THE GRAPHIC VIEWS
  - DETERMINE A PLACE/POV
  PRIMARY / FRONT VIEW
  - PROJECT OTHER VIEWS FROM THAT VIEW
3 Types of Parts -

1) Rectangular - Width, Height, Depth

2) Cylindrical - Diameter & Length, on depth

3) Ergonomic / Aesthetic / Consumer

Orthographic Views -

- Normal to Faces (S)
- Proportional / Accurate
- 2 - 3 Views Required
  3 for Rectangular Parts
  2 for Cylindrical Parts
3 line types -

1) solid / visible / object
   - visible edge(s)

2) hidden
   - invisible edge(s)

3) center
   - center of internal / external cylinder
Third & First Angle Projection

Isometric

Third Angle

First Angle

Text Book Error